

We claim:

1. A computerized method for configuring an electronic device, the method comprising steps of:

- 5 (a) compiling firmware code; and
 (b) generating a representation of a minimized sector variable-bits-per-inch table from a first set of variable-bits-per-inch parameters.

10 2. The computerized method of claim 1, wherein the generating step (b) is performed after the compiling step (a).

3. The computerized method of claim 1, wherein the electronic device further comprises a mass storage device and the method further comprises:

- 15 (c) downloading the representation of a minimized sector variable-bits-per-inch table to a recording medium of the mass storage device; and
 (d) downloading the firmware code to a read-only-memory of the mass storage device.

20 4. The computerized method of claim 3, wherein the mass storage device further comprises a disc drive and the downloading step (c) further comprises:

- (c)(1) downloading the representation of a minimized sector variable-bits-per-inch table to a system sector of the recording medium of the disc drive.

25 5. The computerized method of claim 3, wherein the downloading step (d) is performed before the downloading step (c).

6. The computerized method of claim 1, the method further comprising:

- (c) receiving a second set of variable-bits-per-inch parameters; and

- (d) generating the representation of a minimized sector variable-bits-per-inch table from the second set of variable-bits-per-inch parameters.

7. The computerized method of claim 1, the method further comprising:

- 5 (c) generating the representation of a minimized sector variable-bits-per-inch table from the set of variable-bits-per-inch parameters that was most recently received.

8. A computerized method for obtaining at least one variable-bits-per-inch
10 parameter of an electronic device, the method comprising steps of:

- (a) receiving a request for the at least one variable-bits-per-inch parameter of the electronic device, the request including an indication of a head and an indication of a zone; and
- 15 (b) obtaining the at least one variable-bits-per-inch parameter of the electronic device from a minimized sector variable-bits-per-inch table, from the indication of the head and an indication of the zone.

9. The computerized method of claim 8, wherein the obtaining step (b) further
comprises:

- 20 (b)(1) generating a query for the at least one variable-bits-per-inch parameter of the electronic device, from the indication of a head and an indication of a zone;
- (b)(2) transmitting the query to a manager of the minimized sector variable-bits-per-inch table; and
- 25 (b)(3) receiving the at least one variable-bits-per-inch parameter.

10. The computerized method of claim 8, wherein the electronic device further comprises a mass storage device and the minimized sector variable-bits-per-inch table is stored on a system sector of the recording medium of the mass storage device.

5 11. The computerized method of claim 10, wherein the mass storage device further comprises a disc drive.

12. A computerized apparatus for configuring an electronic device, the apparatus comprising:

10 a compiler of firmware code; and

a generator of a representation of a minimized sector variable-bits-per-inch table from a first set of variable-bits-per-inch parameters, the generator operably coupled to the compiler.

15 13. The computerized apparatus of claim 12, wherein the electronic device further comprises a mass storage device and the apparatus further comprises:

a downloader of the representation of a minimized sector variable-bits-per-inch table to a recording medium of the mass storage device, operably coupled to the generator; and

20 a downloader of the firmware code to a read-only-memory of the mass storage device, operably coupled to the compiler.

14. The computerized apparatus of claim 13, wherein the mass storage device further comprises a disc drive and the downloader of the representation further comprises:

25 a downloader of the representation of a minimized sector variable-bits-per-inch table to a system sector of the recording medium of the disc drive.

15. A computerized apparatus for obtaining at least one variable-bits-per-inch parameter of an electronic device, the apparatus comprising:

a receiver of a request for the at least one variable-bits-per-inch parameter of the electronic device, the request including an indication of a head and an indication of a zone; and
an obtainer of the at least one variable-bits-per-inch parameter of the electronic device from the minimized sector variable-bits-per-inch table, from the indication of the head and an indication of the zone.

16. The computerized apparatus of claim 15, wherein the obtainer further comprises: a generator of a query for the at least one variable-bits-per-inch parameter of the electronic device, from the indication of a head and an indication of a zone;

a transmitter of the query to a manager of the minimized sector variable-bits-per-inch table; and
a receiver of the at least one variable-bits-per-inch parameter from the manager.

17. The computerized apparatus of claim 15, wherein the electronic device further comprises a mass storage device and the minimized sector variable-bits-per-inch table is stored on a system sector of the recording medium of the mass storage device.

18. The computerized apparatus of claim 17, wherein the mass storage device further comprises a disc drive.

19. The computerized apparatus of claim 18, wherein the manager references only the minimized sector variable-bits-per-inch table to retrieve a number of sectors per track variable-bits-per-inch parameter.

20. A system for configuring an electronic device comprising:
- a processor; and
- means operative on the processor for managing a minimized
- representation of a sector variable-bits-per-inch table of a disc
- drive, the representation including an index to a disc drive head, an
- index to a disc drive zone, and an associated sector-per-track data.

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